

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 January 2001 (18.01.2001)

PCT

(10) International Publication Number
WO 01/04415 A1

- (51) International Patent Classification⁷: **D21H 17/65**, (74) Agent: **GÖTEBORGS PATENTBYRÅ DAHLS AB**,
D21C 9/00, 11/00, C02F 1/52, 1/62, 11/12 Sjöporten 4, S-417 64 Göteborg (SE).
- (21) International Application Number: **PCT/SE00/01427** (81) Designated States (*national*): AE, AG, AL, AM, AT, AT
(utility model), AU (petty patent), AZ, BA, BB, BG, BR,
(22) International Filing Date: **5 July 2000 (05.07.2000)** BY, CA, CH, CN, CR, CU, CZ, CZ (utility model), DE,
DE (utility model), DK, DK (utility model), DM, DZ, EE,
(25) Filing Language: **English** EE (utility model), ES, FI, FI (utility model), GB, GD, GE,
GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR,
KR (utility model), KZ, LC, LK, LR, LS, LT, LU, LV, MA,
(26) Publication Language: **English** MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI, SK, SK (utility model), SL, TJ, TM,
TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (30) Priority Data: **9902636-1** **9 July 1999 (09.07.1999)** **SE** (84) Designated States (*regional*): ARIPO patent (GH, GM,
KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian
(63) Related by continuation (CON) or continuation-in-part patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European
(CIP) to earlier application: US Not furnished (CIP) patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE,
Filed on Not furnished IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG,
CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
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GRAPHIC RESEARCH AB [SE/SE]; P.O. Box 3054,
S-850 03 Sundsvall (SE). Published:
— *With international search report.*
— *Before the expiration of the time limit for amending the
claims and to be republished in the event of receipt of
amendments.*
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*For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.*

(54) Title: **METHOD FOR ELIMINATING DETRIMENTAL SUBSTANCES IN A PROCESS LIQUID**

(57) Abstract: A method for eliminating detrimental substances in a process liquid. The process liquid has a first pH and, in addition to said detrimental substances, comprises metal ions and suspended material. Carbon dioxide is added to the process liquid in order to bring the process liquid to a second pH, lower than the first pH. Thereby, the metal ions comprise hydroxide builders, wherein the carbon dioxide (CO₂) is added in an amount which causes the second pH to be between 8 and 6.5, so that the carbon dioxide primarily forms bicarbonate ions (HCO₃⁻) having a pH-buffering effect and the metal ions primarily form metal hydroxides. Thereafter, the detrimental substances coagulate or agglomerate with the metal hydroxides and are adhered to the suspended material so that they become inactive. The method is advantageously used in connection with pulp and/or paper making processes.